From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: robert fowle <hammarlund@voyager.net>
Subject: 1937 edt. of amateur radiotelephony
Message-ID: <199603180211.VAA04236@vixa.voyager.net>

greetings;
        as the subject says, i have the 1937 edtion of amateur radiotelephony.
would like to trade this for manuals i don't have.
if interested, please e-mail list of what ya have availible to trade.
thanks

==========]-[->
Robert Fowle
The HAMMARLUND Historian
Ph. voice or fax 517-789-6721
1215 Winifred
Jackson, Mich. 49202-1946
E-mail at: hammarlund@vixa.voyager.net
                              HAMMARLUND LITERETURE WANTED
==========]-[->

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: garland@PHYAS1.MPS.OHIO-STATE.EDU (James C. Garland)
Subject: RE:4D32 Availability
Message-ID: <199603172311.SAA00737@top.magnus.acs.ohio-state.edu>

>
>>Gentlemen,
>>
>>I would like to get a extra 4D32 as a standby for my 32V3.   I can't sleep at
>>night knowing I don't have a spare ready to go. Check your tube box and
let me
>>know.
>>
>>Mark
>>N0JWI
>
>

Fear not, Mark. Within the past month or so the government has begun
surplusing 4D32s by the carload. Within a few months they should start
turning up on the retail market, and I would expect the prices to start
falling. You could buy a spare now from Fair Radio, but I'd advice waiting
a while.Buy up a lifetime supply when they become available and sleep
soundly everafter.

73,
Jim W8ZR

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: jschwart@ix.netcom.com (John Schwartzberg)
Subject: Re: ?? on Precision Apparatus Tube Tester
Message-ID: <199603171742.JAA08651@ix3.ix.netcom.com>

At 01:04 PM 3/15/96 -0600, cfb@novum.com wrote:

>This is made by the Precision Apparatus Company; model #912; serial #13440.
>Also, is this a good price, and what questions should be asked of the buyer?
Charles,

FWIW, I paid $35.00 for my Precision Model 912 in fine working shape.
$125.00 sounds pretty high to me. After I bought mine, I saw another at a
Swap Fest for $50.00. So, there are a couple of reference points for
pricing. As for the instrument, it's a basic tube tester, and works fine
for me. However, as with any tube tester, the real dope comes out in a
circuit.....blah blah woof woof....you know the rest of the story on that.

73,

John
N0GII

jschwart@ix.netcom.com

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Michael Crestohl <mc@shore.net>
Subject: A Road Trip to the Boatanchor Shop in Hillsborough NH!
Message-ID: <199603180154.UAA19751@northshore.shore.net>

Hello All Heavy Radio Fans:

Yesterday (Sat. March 15th 1996) we had an interesting day! We started out
at 6:00 AM and headed to the IRS (no, not THEM - is it that time already?)
but the Interstate Repeater Society flea market in Hudson NH. We arrived
at 7:00 and picked up a few little bits and pieces quickly. There were
a lot of boatanchors there but I'll leave it to Andy Wallace to provide
the report. My friend Chuck WA1EKV and I jumped in the car and quickly
drove over to check out the Westboro MA flea and after a few minutes
checking it out we headed back to Hudson. I'll never understand why there
are TWO fleas held on the same day within the same area!

Anyways, this post is not about flea markets - it is about the road trip to Hillsborough NH and the great Boatanchors Store right in the center of town at 13 Main Street.

I've heard some whisperings here and there about this place....a boatanchor emporium a thirty-minute drive from Concord NH. Well, Chuck and I I were not quite prepared for what we saw - right there in the middle of town was a shop window filled with boatanchor ham radios - a Collins KWM-2, Collins TCS, HRO-5, Drakes and many other great classics. Entering the shop we spotted at least a hundred more including several military boatanchors including a R-390A, R-388, GRC-19 (R-392 + T-195), command sets, a GRC-109, and more than I can remember right here. There was a lot of Drake equipment too. In addition there were a fair number of vintage and antique broadcast radios but I cannot comment on what was there because I have no interest in them per se. Anyways, we had met Chris Sieg, Owner of this emporium at the flea market and he welcomed us to his establishment. After perusing the wares on display we asked what he had in the back room and were led upstairs to the second floor where we spotted many interesting old radios, mostly commercial ham radio equipment from the 1950s and 1960s. Chuck spotted a clean Drake R4-A which is one of the many radios on his wish list. Chuck is a very discriminating individual in his equipment tastes - anyone on here who knows Chuck knows the kind of work he does, but for you who don't, Chuck machined a beautiful brass Bencher-style paddle that is a beauty to behold. Anyways, he was very amused with what he found and also picked up a new and unmodified Command set receiver as well. Unfortunately I did not find the KWM-1 I am looking for, but I was very pleased with the quality of the equipment. The prices are higher than I am accustomed to at flea markets but this is a store and a business with overhead and expenses, but I did not find them excessively out of line, especially seeing that the equipment has been checked out and is working. You never know with hamfest stuff - that's why its so comparatively cheap. You never know! The plus side is that Chris is very knowlegeable about these old pieces of radio history and this is clearly a labor of love. I spotted some computer stuff in a corner and I suspect that his real business is computers and consulting in same. I hope to return to the boatanchor shop a couple of times a year just to snoop around.

Chris doesn't advertise his business but he is a subscriber to BOATANCHORS <c_sieg@mail.conknet.com> and his regular mail address is PO Box 123, Hillsboro NH 03244. Tel number is 603-464-5625

This place is definitely worth the visit. Chris made Chuck, Cynthia and I feel welcome and it was a pleasant visit. He let us look around all we wanted and it was a most enjoyable experience. Definitely worth a visit if you're anywhere near it. Directions are easy - from Concord NH take I-89 North (only way you can go) to Exit 5 (Rt 202) which exits from the left. Drive for several miles intil you come to a traffic light in the

middle of town. Its just after the light on the right. You can't miss it!

Michael Crestohl, KH6KD/W1
mc@shore.net

PS: I have no vested interest in publicizing this place - just want to
share it with the BA community!

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: Bob Duckworth <rmd@ka4ybr.ka4ybr.atlanta.com>
Subject: ARC58 (not 'A' :-() schematic sought.
Message-ID: <199603162342.SAA28734@ka4ybr.ka4ybr.atlanta.com>

Picked up a Collins ARC-58 at the Kennehoochee hamfest this AM.
I'd like to supply the 115V 400 Hz and emulate the control head but need
a schematic/diagram.
Looks like a neat AM HF RX.
Also, I'll be looking for a mateing connector as soon as I figure out the Bendix
PN. I have some Bendix CONN. too and will post them in case anyone needs.

73,

-bob
WB4MNF

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: lblaske@pclink.com (Lee Blaske)
Subject: Atlas info
Message-ID: <v02130501ad71fdc7b854@[204.72.134.32]>

> Now I hear nothing but bad news about his new Atlas company. Like all
> talk and no rig.
> >
> > Herb Johnson then started and continues to run Atlas to this day.

For those interested in the current status of Atlas, there's a big update
on page 82 of the current (April 1996) issue of QST. Things look pretty
grim.

Lee

****

Lee Blaske   73 de AA0EF
Keynote Music
lblaske@pclink.com
Deephaven, Minnesota
"When he who hears doesn't understand him who speaks, and when he who
speaks doesn't know what he himself means -- that is philosophy."
-Voltaire-
****

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: wb6zwc@ns.net
Subject: re: b+ (high voltage) wire
Message-ID: <2.2.16.19960316223033.38776716@mail-1.ns.net>

Well it is worse than I thought. The current B+ wire is rated at 15000 volts.
I do not know why Collins did that since only 3300 volts is the B+.

There nothing like that in Sacramento. Spent two days checking everybody out.

I did find a roll of tv anode wire that may have to be used. I will have a
close
look at spark plug wire to see if it will be aesthetically pleasing.

On the other hand, the current hv wire has lasted almost 40 years.
****
Richard   wb6zwc@ns.net
Still looking for BLeeder
Resistors 7.5 K @ 160 Watts

& 575A's Hv rectifiers (toobs)
****

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Kevin Pease <hamradio@mm1001.theporch.com>
Subject: re: b+ (high voltage) wire
Message-ID: <Pine.LNX.3.91.960317073451.4902D-100000@mm1001.theporch.com>

On Sun, 17 Mar 1996 wb6zwc@ns.net wrote:

> look at spark plug wire to see if it will be aesthetically pleasing.

If you use spark plug wire make sure that it is solid core and low
resistance. Most sparkplug wire even some of the solid core spiral wraped

hase high restance. Spark plug wire is not made to pass much current.

The TV anode wire may be ok. Also sonsider useing RG-59 coax with solid core. It should have suficient current and voltage ratings. Ground the shield and fuse the B+ and you have additional safety since if the insulation fails the B+ will safely short to ground.

Kevin Pease
WB0JZG Mount Juliet, TN.

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: "Lahlum Ross" <ross_lahlum@msmail.wes.mot.com>
Subject: RE: b+ (high voltage) wire
Message-ID: <9603172117.AA02862@kay.wes.mot.com>

Before you give up, try some HV test probe wire. I don't know the part no., but I think it's made by Belden. Looks just like the regular flexy probe wire but thicker. I think it's good up to at least 10 kV. You may want something stiffer, however. If you get a Belden catalog you may find exactly what you're looking for. Good luck.
Ross KB9JJR

>
>Well it is worse than I thought. The current B+ wire is rated at 15000 volts.
>I do not know why Collins did that since only 3300 volts is the B+.

>There nothing like that in Sacramento. Spent two days checking everybody out.

>I did find a roll of tv anode wire that may have to be used. I will have a
>close
>look at spark plug wire to see if it will be aesthetically pleasing.

>On the other hand, the current hv wire has lasted almost 40 years.
>*****************************
>Richard   wb6zwc@ns.net
>Still looking for BLeeder
>Resistors 7.5 K @ 160 Watts
>----------------

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: "Mark S. Hovda" <75301.3141@compuserve.com>
Subject: BA Cataloges
Message-ID: <960317002536_75301.3141_GHI37-1@CompuServe.COM>

Gentlemen,

I have the following catalogs for sale. Prices include postage:

Lafayette Radio, 1959, 260 pages. Very Good Condition $10

Newark Catalog #62, 256 pages, looks like it is from about 1957 very good condition $10
          (Catalog has all of the good boatanchors of the mid/late 50's)

Radio Shack, 1963, very good, 282 pages, $12 (boatanchors of course, but also has car tires, blenders and floor polishers)

Walter Ashe, 1956, 160 pages, $15 (for real hams, no tires or blenders here)

Allied Radio Special Supplement No. 116, 1948, 48pages. Light on Ham equip, a couple of pages of Hallicrafters and National equipment. $6

Eico 1970 Catalog, Free with any of the above.

2 Lafayette and 1 Radio Shack newspaper format catalogs from the late 50's. Lots of audio, light on boatanchors. But there are electric frying pans. $1 with the purchase of any of the above.

You can have them all for $30 shipped.

Mark
N0JWI

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: BA Cataloges
Message-ID: <Pine.SV4.3.91.960316155643.6560A-100000@uhunix5>

> Newark Catalog #62, 256 pages, looks like it is from about 1957 very good
> condition $10
>   (Catalog has all of the good boatanchors of the mid/late 50's)

How long has Newark been around?

Jeff NH6IL

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: k1zat@bah.com
Subject: Re: BA Cataloges
Message-ID: <Pine.SUN.3.91.960316212612.19339C-100000@booz.bah.com>

Jeff --

On Sat, 16 Mar 1996, Jeffrey Herman wrote:
> How long has Newark been around?

  At least 34 years that I can think of..

     jd

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: haynes@cats.ucsc.edu (Jim Haynes)
Subject: BA Music
Message-ID: <199603170516.VAA28113@hobbes.UCSC.EDU>

I've just been sitting here listening to the Richard Rodgers "Victory at Sea"
music. Now _there's_ something to get you in the mood for boatanchoring.

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: jproc@worldlinx.com
Subject: BA's in the Movies
Message-ID: <Chameleon.4.01.2.960316233003.jproc@>

Dear BA'ers,

Tonight I seen the new comedy movie 'Down Periscope'. The setting is on a
US World War 2 submarine which was re-commissioned for a modern day war
game. There were many shots of the radios, but they didn't resemble the
radio shack of the two WW2 vintage submarines which I have toured. In fact,
I couldn't recognize any equipment but it did have a BA look to it. In my
best estimation, I would say that Hollywood was passing off military
tube type RF signal generators as radios. Has anyone else (with a sharper
eye than mine) seen the movie? Can anyone identify the gear?

Regards,
~~~~~~~~~~~~~~~~~~~~~~~~~~~
Jerry Proc VE3FAB
E-mail: jproc@worldlinx.com
Radio Restoration Volunteer
HMCS Haida, Toronto Ontario
~~~~~~~~~~~~~~~~~~~~~~~~~~~

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Bill Meara <w.meara@server1.codetel.net.do>
Subject: Bad Vibes - HW-101
Message-ID: <9603171327.AA01724@server1.codetel.net.do>

Anchorologists:

My rebellious HW-101 is slow but surely being tamed. Yesterday I installed a 400 hz CW filter acquired from Kim through the good offices of the BA list. The CW bands sound much better when you're taking them 400 hz at a time!

Before I put the filter in, I noticed that CW signals were sounding kind of funky. Turning the RF gain way down, I noticed I was getting some high pitched audio oscillation. The oscillation frequency varied when I twisted the Mic/CW gain control - this pretty much isolated the oscillation to the 6EA8 Speech amplifier (V1). Voltages on this stage all checked out OK and I couldn't find any obvious reasons for the feedback. I noticed, however, that taking the tube shield off V1 caused the oscillation to stop! I checked the contact between the shield and ground - good! Deciding to leave well enough alone, a kept the shield off and the rig seems to work just fine. Has anyone seen this kind of oscillation problem before?

73 De N2CQR/HI8
Bill Meara
Santo Domingo, Dominican Republic
w.meara@codetel.net.do
or
74537.1100@compuserve.com

"Hispaniola Heaths and Hallis"
 HT-37, 2B, HW-101, HQ-100

PGP PUBLIC KEY AVAILABLE ON REQUEST

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Paul Christensen <PaulC@jax.se.continental.com>
Subject: RE: Bad Vibes - HW-101
Message-ID: <314C38B6@se.continental.com>

>Has anyone seen this kind of oscillation problem before?

The HW-101 was filled with annoying parasitic oscillations. In the three years I had mine during high school in the '70s, I never

could get mine tamed, particularly on the upper bands.

The receiver never had a single problem while I owned it. Long
after I sold it however, someone told me that 6146B finals could
not be substituted for the specified 6146A. I was told that the
interelectrode capacitance within the "B" was outside the range
of Heath's neutralizing circuit. As I recall, I my oscillation
problems were not nearly as prevalent with the original 6146A
types.   The only other difference between the tubes that I
can remember is the 6146A filament glowed much hotter
to the eye than the 6146B. Perhaps someone else can enlighten
us on the differences between the two tubes.

It was a glorious day when in '78 when I traded the HW-101 for
a Yaesu FT-101EE.

 -Paul, N9AZ

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Kevin Pease <hamradio@mm1001.theporch.com>
Subject: Re: Bad Vibes - HW-101
Message-ID: <Pine.LNX.3.91.960317074359.4902E-100000@mm1001.theporch.com>

On Sun, 17 Mar 1996, Bill Meara wrote:

> pitched audio oscillation. The oscillation frequency varied when I twisted
> the Mic/CW gain control - this pretty much isolated the oscillation to the
> 6EA8 Speech amplifier (V1). Voltages on this stage all checked out OK and I
> couldn't find any obvious reasons for the feedback. I noticed, however,
> that taking the tube shield off V1 caused the oscillation to stop! I
> checked the contact between the shield and ground - good! Deciding to leave
> well enough alone, a kept the shield off and the rig seems to work just
> fine. Has anyone seen this kind of oscillation problem before?
>
Try tightening all of the circuit board mounting screws. there may be bad
contact between the screws and the chasis.

Kevin Pease
WB0JZG Mount Juliet, TN.

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Dave Hockaday <wb4iuy@nando.net>
Subject: Re: Bad Vibes - HW-101
Message-ID: <9603171500.AA00814@nando.net.nando.net>

>> pitched audio oscillation. The oscillation frequency varied when I twisted
>> the Mic/CW gain control - this pretty much isolated the oscillation to the
>> 6EA8 Speech amplifier (V1). Voltages on this stage all checked out OK and I
>> couldn't find any obvious reasons for the feedback. I noticed, however,
>> that taking the tube shield off V1 caused the oscillation to stop! I
>> checked the contact between the shield and ground - good! Deciding to leave
>> well enough alone, a kept the shield off and the rig seems to work just
>> fine. Has anyone seen this kind of oscillation problem before?
>>
>Try tightening all of the circuit board mounting screws. there may be bad
>contact between the screws and the chasis.
>Kevin Pease
>WB0JZG Mount Juliet, TN.

Just had the same exact problem with one of my HW-101 Heathkit rx's. Found
the problem to be exactly that...

73 de Dave Hockaday WB4IUY
wb4iuy@nando.net

http://www.webbuild.com/~wb4iuy/
http://www.webbuild.com/~wb4iuy/teara.html
http://www.geocities.com/TheTropics/3212/
http://www.geocities.com/TheTropics/3489/
http://www.geocities.com/TheTropics/3341/

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Bill Meara <w.meara@server1.codetel.net.do>
Subject: RE: Bad Vibes - HW-101
Message-ID: <9603171619.AA10480@server1.codetel.net.do>

At 07:03 AM 3/17/96 -0600, Yaesu buyer Paul wrote:
>It was a glorious day when in '78 when I traded the HW-101 for
>a Yaesu FT-101EE.

Quick! Somebody alert the BA Thought Police!

Fire up those BA, tube-controlled, American-made Internet flame throwers!

;-) Just kidding! Thanks Paul!
>
73 De N2CQR/HI8   "Hispaniola Heaths and Hallis"
Bill Meara   HT-37, 2B, HW-101, HQ-100
Santo Domingo, Dominican Republic

w.meara@codetel.net.do PGP PUBLIC KEY AVAILABLE ON REQUEST
or
74537.1100@compuserve.com

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: Bad Vibes - HW-101
Message-ID: <199603171544.JAA13373@dlep1.itg.ti.com>

At the risk of continuing the thread unmercifully;

>>It was a glorious day when in '78 when I traded the HW-101 for
>>a Yaesu FT-101EE.
>
>Quick! Somebody alert the BA Thought Police!
>
>Fire up those BA, tube-controlled, American-made Internet flame throwers!

Don't forget that the HW-101 was about the cheapest 5-band SSB rig available at the time. I've got an HW-101 I've had for years and never used. My SB-102 is a similar rig with a superior VFO.

Regards,
Bill Sorsby, N5BU bill.sorsby@dlep1.itg.ti.com

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Paul Christensen <PaulC@jax.se.continental.com>
Subject: RE: Bad Vibes - HW-101
Message-ID: <314C61C7@se.continental.com>

>At 07:03 AM 3/17/96 -0600, Yaesu buyer Paul wrote:
>It was a glorious day when in '78 when I traded the HW-101 for
>a Yaesu FT-101EE.

>Quick! Somebody alert the BA Thought Police!

I forgot to mention that I've changed my ways!

The HW-101 replaced my Johnson Viking II/VFO 122 combination.
That was sacrilegious enough!

I now have my trusted SX-100 along with two mint
National SW-3 receivers, and I have finished restoring
my homebrew novice transmitter. Presently, I am feverishly
looking for a pre-WWII Collins transmitter. It would look great
sitting on the same desk as my newly-acquired Bunnell Gold Bug!

 -Paul, N9AZ

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Paul Christensen <PaulC@jax.se.continental.com>
Subject: Re: Bad Vibes - HW-101
Message-ID: <314C6D81@se.continental.com>

>Don't forget that the HW-101 was about the cheapest 5-band SSB rig
available
>at the time. I've got an HW-101 I've had for years and never used. My
>SB-102 is a similar rig with a superior VFO.

$249.95 less power supply if I'm not mistaken. The power supply was another

$50 or so. When you're delivering newspapers as your only source of income,

that kind of money is not easily forgotten! In high school study hall, I
would
read the specs on the HW-101 until I had every word memorized.

I just ran through a present value calculation on my HP financial
calculator.
Assuming a statistically smoothed 4% per year increase in inflation for 24
years, $300.00 in 1972 is equivalent to $768.99 today. This amount today
will
get you a new Ten-Tec Scout with a power supply and a couple band
modules. The HW-101 was a good but even then. The '101's main
competition then was the new Tempo One made by Yaesu for Henry Radio.
My best friend in high school considered it to be a better value. I recall
getting into numerous arguments with him like, "I built mine, and I learned
how the rig works." He would reply, "You only learned
how to follow instructions! My Tempo is built by the leading Japanese radio
manufacturer." It went on-and-on like this for several years until I
one-upped
him on the FT-101EE. The rest of the group then followed.

To this day, I firmly believe the HW-101's receiver was better. The
FT-101EE

suffered from severe 2nd and 3rd order front-end intermod distortion.
 During
one field day event, I recall the Yaesu's rear-panel light glowing when
another
station was operating on another band. Does anyone recall this overload
feature
on the early Yaesu's? Admit it! Some of you had one too!

 -Paul, N9AZ

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: jmlckwd@mindspring.com (Max Lockwood)
Subject: RE: Bad Vibes - HW-101
Message-ID: <199603171651.LAA12635@borg.mindspring.com>

>It was a glorious day when in '78 when I traded the HW-101 for
>a Yaesu FT-101EE.
>

We are all entitled to one mistake.....

73,

Jim - km6nk/4

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: JOSEPH LUTZ <100735.2050@compuserve.com>
Subject: RE: Bad Vibes - HW-101
Message-ID: <960317165148_100735.2050_EHV134-1@CompuServe.COM>

HI,
    Never experienced any problems with my HW-101when I used the 6146B'S. Can't
wait to get back and fire it up again. Would be using it here, but packers only
shipped part of the darn thing, rest is in storage :>(
Working primarily CW from the Philippines 78-81, the rig was still 'smokin'
after more than 27K QSO's. The BA's have got me going back to the Good, the
Old, the Heavy and the Fixable!
73 Joe W7LPF (HB9IBA)
NCVA - SWOP - QWCA
++Looking for SX-111 and HT-32++

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996

From: jmlckwd@mindspring.com (Max Lockwood)
Subject: Re: Bad Vibes - HW-101
Message-ID: <199603171656.LAA13997@borg.mindspring.com>

>
>To this day, I firmly believe the HW-101's receiver was better.

Glad to see someone else praise the receiver in the HW-101. For whatever other faults a 101 might have depending on age and how it was built, for sheer sensitivity, I'll put my 101 up against any other receiver in my radio room.

. Does anyone recall this overload
>feature
>on the early Yaesu's? Admit it! Some of you had one too!
>
Nope. Never had one. Except for my Lafayette HA-460, every radio I've ever owned has ben genuwine 'murriken ahrn.

73,

Jim - km6nk/4

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: Bad Vibes - HW-101
Message-ID: <Pine.SV4.3.91.960317073811.28925A-100000@uhunix5>

On Sun, 17 Mar 1996, Bill Sorsby wrote:
> Don't forget that the HW-101 was about the cheapest 5-band SSB rig available
> at the time.

No kidding. I found one in a dumpster in the Ala Wai Harbor back in the early 80s. Can't get any cheaper than that!

Jeffrey NH6IL (ex: WA6QIJ, WH6AEQ)(ex Coast Guard CW op at NMO)
SOWP, ZUT!, Oahu Civil Defense RACES
Heath DX-60B + HR-10; Galaxy GT-550; homebrew QRPp stuff
Licensed since '76.

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Bill Meara <w.meara@server1.codetel.net.do>

Subject: Re: Bad Vibes - HW-101
Message-ID: <9603172246.AA01123@server1.codetel.net.do>

At 10:49 AM 3/17/96 -0600, Paul wrote:
Assuming a statistically smoothed 4% per year increase in inflation for 24
>years, $300.00 in 1972 is equivalent to $768.99 today. This amount today
>will
>get you a new Ten-Tec Scout with a power supply and a couple band
>modules. The HW-101 was a good but even then. The '101's main
>competition then was the new Tempo One made by Yaesu for Henry Radio.
>My best friend in high school considered it to be a better value. I recall
>getting into numerous arguments with him like, "I built mine, and I learned
>how the rig works."

As a teenager, I lusted in my heart for an HW-101, but my paper route wasn't big enough!

A while back I learned that my old HT-37 sold for 450 dollars when new in 1959. I did some Consumer Price Index comparisons and found that to be the equivalent of around 2000 of today's dollars.

Glad to hear that you eventually recovered from that bout of Yaesu-fever Paul!

73 De N2CQR/HI8 "Hispaniola Heaths and Hallis"
Bill Meara HT-37, 2B, HW-101, HQ-100
Santo Domingo, Dominican Republic
w.meara@codetel.net.do PGP PUBLIC KEY AVAILABLE ON REQUEST
or
74537.1100@compuserve.com

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Paul Christensen <PaulC@jax.se.continental.com>
Subject: Re: Bad Vibes - HW-101
Message-ID: <314CB964@se.continental.com>

>A while back I learned that my old HT-37 sold for 450 dollars when new in
>1959. I did some Consumer Price Index comparisons and found that to be the
>equivalent of around 2000 of today's dollars.

And the HP-10B says..... $1,920.64 to be exact! I did the same thing with an S-40a
and a Stancor ST-202A transmitter from the late '40s. This was my father's first
station as W9EAC, now SK. I crunched the numbers, and was surprised that he

was
able to afford this as a teenager in high school. Even without taking the time value of
money into consideration, it was a lot for a high school student.

Any other old-timers remember how they financed their first stations?

 -Paul, N9AZ

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: Bad Vibes - HW-101
Message-ID: <199603180012.SAA20356@dlep1.itg.ti.com>

At 09:49 PM 3/17/96 -0400, Bill Meara wrote:

>Was the HW-101 essentially a more inexpensive version of the SB gear? >

Yes. I've got an SB-102 and an HW-101 side by side and in looking at the insides of them it appears that all circuit boards are identical. Most front panel controls are also the same. The HW-101 is essentially an SB-102 with a cheaper VFO, less extensive metering, no remote VFO capability, no transverter driver output tap, VOX located under the chassis and, of course, a different cabinet and different paint.

In spite of what I say about the HW-101 being the cheapest 5-band SSB rig, I lusted after one back in the late '60's, precisely for that reason. (Never saved up enough money, though.)

Regards,
Bill Sorsby, N5BU   bill.sorsby@dlep1.itg.ti.com

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: kenc@smartdocs.com (Ken Corwin)
Subject: bc348.history
Message-ID: <199603171635.IAA23673@warp10.smartlink.net>

Hello, All -

Revision 2 of subject file has been posted to the archive. Added by this revision is a special alignment note found in one of the manuals, a citation for an excellent article on these receivers by Walt Hutchens, and BC-348-Q cost information.

Your help is needed to bring Model, Contract, and high serial numbers up to date. Too many blank spaces remain in the chart.

Subject file can be obtained as follows:

1. Send message to listproc@theporch.com
2. Leave the subject line blank.
3. State in the body of the message: get boatanchors bc348.history

Kind regards,

Ken Corwin (kenc@smartdocs.com)

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Arthur Moe <kb7ww@aracnet.com>
Subject: Bliley 1c info
Message-ID: <199603180025.QAA26313@trapdoor.aracnet.com>

Today on the way home from a late breakfast, the XYL saw a garage sale and so we stopped. Well in a box of junk I found a BLILEY crystal controled oscillator. Modle 1C. It looks like an oscillatorfor doing IFs has output on 175,200,262,370,455,465,&1000 Kc. With or without MOD Even has a audio in out jack. Can any one offer more information on this. Or is some one out there looking for such a thing.

73s
art

***

AT THE END OF THE OREGON TRAIL

Arthur Moe
A.R.S. KB7WW
QTH: Oregon City, Or.

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: azkb7ryu@aztec.asu.edu (JOEL N. STEENIS)
Subject: Books For Sale
Message-ID: <9603171755.AA01389@aztec.asu.edu>

Gang-

I have the following books for sale:

R-390/URR Maintenance Manual TM 11-5820-357-35 March 1962	$25.00
38TH Edition (1961) ARRL Handbook	$5.00
(2) Understanding Amateur Radio 1963	$2.00 Each
Pulse and Digital Circuits 1956	$5.00
Basic Electrical Engeneering 1945 with answer pamphlet	$5.00
Armature Winding and Motor Repair 1920	$1.00

All of these prices *DO NOT* include shipping.

73, Joel Steenis KB7RYU

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Andy Wallace <wallace@mc.com>
Subject: C.E. 458 VFO unit wanted
Message-ID: <9603172026.AA01183@kali>

I am looking for a Central Electronics 458 VFO. This is the
ARC-5 transmitter in their cabinet, made to mate with
the series of phasing exciters.

Nice shape and working preferred, non-working okay as long
as it's all there.

Please email with details. Don't have one? Keep me in
mind at the next hamfest!

73,
--Andy
wallace@mc.com

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Henry van Cleef <vancleef@bga.com>
Subject: Re: Caig Deoxit D-5
Message-ID: <199603171537.JAA01257@zoom.bga.com>

As kb0qil@kb0qil-uhf.ampr.org said
>
> Hank, de Dan.
>
> I am not familular with Deoxit, where can I get it?
>
You can get it mail-order from Antique Electronic Supply. I would suggest calling any local electronic suppliers and asking if they carry it.

Caig Products are "blessed" by several manufacturers such as HP, DEC, and Tektronix for keeping contacts clean. Deoxit replaces an earlier product named "Cramolin."

I've always avoided "mouse milk" cures for problems, and have taken more than one pot apart to swab out the lumps of old Radio Schlock contact cleaner. But Deoxit has cured every contact problem I have used it on. It won't fix burned-out switch contacts or broken pot resistances, and I don't expect it to melt out old contact cleaner residues, although it may do fairly well at that. The last "unfixable" it fixed was a position pot in a Tek 82 plug-in. That pot wouldn't position the trace at all---just made some noise when you turned it. I shot some Deoxit in there, thinking that it certainly wouldn't work on this one. That pot now works like new.

I used it on the RME-45 bandswitch wafers when I got the set. They were filthy, corroded, crud-filled, you name it. Deoxit got the bandswitch working and quieted down the tuning cap grounds. I later had the coil box apart on that set, with the individual wafers out of it, so had a chance to soak them in lacquer thinner. I found I couldn't get the contacts any cleaner than the Deoxit had left them.

--
****
Hank van Cleef vancleef@bga.com vancleef@tmn.com
****

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: lblaske@pclink.com (Lee Blaske)

Subject: Collins 516-F1 info needed
Message-ID: <v02130502ad71fe93e827@[204.72.134.32]>

A while back, I bought a Collins 32S1 that happened to come with a 516-F1 power supply rather than the 516-F2 it's supposed to have.

I realize that the 516-F1 is the power supply for the KWM-1. Will it work well with the 32S1?

Before I try it, I need to do some repair. The previous owner did a sloppy job replacing the filter cap(s) with some units that were way too tall for the case. As a result, he built a cabinet extender piece. Fortunately, it can be removed and restored to original condition.

What kind of filter cap(s) were in this unit originally? From the way it looks, I suspect it would have been one large rectangular can. Is it possible to find an original replacement? If not, what should I use?

Finally, I could really use a schematic for this unit and would be happy to pay copying costs involved.

73's,

Lee

P.S. Has anyone purchased one of the used 516-F2's from Fair Radio? Are they in good condition, and are there any left?

****
Lee Blaske 73 de AA0EF
Keynote Music
lblaske@pclink.com
Deephaven, Minnesota
"When he who hears doesn't understand him who speaks, and when he who speaks doesn't know what he himself means -- that is philosophy."
-Voltaire-
****

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Karan Lee Carruth <klccarru@tenet.edu>
Subject: Collins 618F-1(*) For Sale

Message-ID: <Pine.OSF.3.91.960317113432.13543B-100000@beall.tenet.edu>

I have two of these aircraft radios that are mounted in fiberglas carrying cases along with 115 VAC power supplies, speakers and controls. They were designed for portable use by the military.

One works well and the other has some glitch. I don't recall exactly what the symptoms were but, at the time, I did not think it was too bad.

I would like to find a home for these. Anyone interested? I would sell or trade for WW-II stuff.

Lenox Carruth, WA5OVG

klccarru@tenet.edu

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: FS: 75 pounds of BA caps/xfmrs
Message-ID: <Pine.SOL.3.91.960317163120.24989A-100000@iglou2>

2mfd, 5kvdc
2mfd, 2.5kvdc 3ea
2mfd, 4kvdc 2ea
4mfd, 660vac
2mfd, 600vdc 12ea with clamps
2mfd, 1.5kvdc
15mfd, 1kvdc
4mfd, 1kvkc

Transformers

Thordorson
T48333 2ea
T48335
GB 23421 Filamnets. 3 6.3v sec and 117vac pri

Stancorp
A3835

Chokes
Thordorson 49643

13hy 250ma Gilfillan Bro. 2 ea monsters

$50 for the whole 75 pound box plus a bit of shipping cost.

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: GALBRAITH CHRISTOPHER <99galbra@lab.cc.wmich.edu>
Subject: FS: Drake low pass filter/1kW $35 shipped
Message-ID: <Pine.SUN.3.91.960317122300.11991A-100000@grog>

Can't remember the model #, but it's good for at least a kW (2?), copper
has some corrosion, works great (have an extra, though).

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: "William C. Robbins" <billrobb@serv01.net-link.net>
Subject: FS: Manuals
Message-ID: <199603162326.SAA15793@serv01.net-link.net>

I am selling the following manuals and literature as ONE lot, ONE price.
Offers please, plus shipping. May also consider trades for Heath related
gear or literature.

Allied Radio Knight Radio Lab "10 Kits in One"
Knight-kit ASSEMBLY Manuals:
        R-55 5-Band Shortwave Receiver
        C-27 Citizens Transceiver
        C-11 Citizens transceiver
        T-60 60-Watt AM-CW Transmitter
Philmore TC-11 and TC-612 Citizens Band Transceiver Kit
Heathkit Commache Mobile Receiver MR-1 Condensed manual
Hallicrafters Two-Meter SR-42
Lafayette Radio TM-11 S-meter
Realistic Pro-38
Globe DSB-100 Globe Sidebander
International MP-1 Nuvistor Preamplifier Kit
ArcherKit 5-Volt Power Supply
Wilson Mark II and Mark IV
Characteristics of Sylvania Receiving Tubes
TM-73 Radio Surplus A LA 73 March 1970 (published by 73 magazine)
Surplus Radio Conversion Manual Vol 1 & 2
Motorola PT Series Handie-Talkie Manual
Sylvania Direct-Wire TV Camera
TM11-601 War Dept Tech manual, Radio Sets SCR-808A and SCR-828-A

TM11-296 Dept of the Army Tech manual, Radio Set AN/PRC-6
Weston 4440 Digital Multimeter
Heathkit
        O-12 Lab Oscilloscope
        T-3 Visual-Aural Signal Tracer
        AD-27 Compact Stereo Center
        HW-30 Twoer - Condensed
        GW-10 Citizens Band Transceiver
        HG-10 VFO
        DX-60 Transmitter
        IM-21 VTVM
        GDA-20-3 Garage Door Opener
        MP-10 Power Converter
        B-1 Balun
FM Schematic Digest, A collection of Motorola Digest

Thanks,

Bill

William C. Robbins, WA8CDU   ***Heathkit Collector***
billrobb@serv01.net-link.net

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: FW: Hammerlund Questions
Message-ID: <UPMAIL03.199603180109310828@msn.com>

To David Metz and to the List..... Al Fritsche

From: MIKE SANDERS
Sent: Saturday, March 16, 1996 7:46 PM
Subject: Re: Hammerlund Questions

>
>
>   Gang, Spent several hours cleaning smoke, grease what ever off of
>my HQ-170A. That means taking the front panel completely off and cleaning
>every thing I could reach.
>
>Now my question, The dual dials are sparkling white, but the S-meter is a
>amber color. I know this has been dicussed before, But is that the way it
>should be as It certainly stands out.

    Hi Al, The S meter should be white or a yellowed white. The amber S

meters did exist but in some earlier receivers like my HQ150. So yours may have been replaced at some time or another.

>BTW, what do I do if the steel wire cord ever breaks?

Try someone like K5GIT. Ron may have some that is used in the switch for bands and tank in the Collins KWM2/As

>Also the Clock has yellowed a lot and does anyone have a new in box
>replacement, I know iam dreaming.

A common problem but new ones are either not existant now are very hard to find. They did make a 12 and a 24 hour format by the way.

>At any rate, this guy will play well when Iam done, The only electronic
>problem that Iam aware of is the 2 Meter convertor is very weak or doesn.t
>work at all, no big deal, when was the last time you worked 2 meter AM.

In the straight HQ170A there is no 2 meters only the dial scale for an external converter. The HQ170A VHF had 2 as well as 6 in it using nuvistors in the fronts and mixers on seperated assemblies standing up off the main chassis.

>Thanks for the Bandwidth
>Al
>Fritsche@msn.com

Good luck with the receiver. Some day someone will make photo copies of the S meter faces and new color (since there is a little red in the 24 hour format face) photo copies of the clock faces. Then we will all buy em and be happy etc..... 73
de KS0F Mike

ks0f@i1.net

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: Jim Dillon <beadgal@ptialaska.net>
Subject: Fwd: TV-7 FS $70.....
Message-ID: <01BB135F.0E42CBA0@juneau_76.dialups.ptialaska.net>

....its in VA, has '62 data book, case repaint e-mail chrisk@access2.digex.net

seen on the swamp
Don't call me   Jim Dillon Wl7CMQ
still looking for Magic Eye gear

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: azoth@netcom.com (Az0th)
Subject: Re: Fwd: TV-7 FS $70.......
Message-ID: <199603170409.XAA22327@netcom6.netcom.com>

Hiyall,

> ....its in VA, has '62 data book, case repaint   e-mail   chrisk@access2.dig
> seen on the swamp
> Don't call me   Jim Dillon Wl7CMQ

No need to follow up on this one, fellers; I picked it up today, and it
really is St. Patty's Day green! Regulation on the inside, though, with
adaptors, test leads, operators & maintenance manuals. It's got socket
savers like the D (but no pin-straighteners), a pair of '62 data books,
and a parts list. Excellent condition, and it even works, but the handle
is braided rope. I wonder where I could find a replacement handle....

73 de KF4FJH - RF Buchanan (azoth@netcom.com)

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: Vlad Dvorkin <dvorkin@pcs.mot.com>
Subject: German WWII FUG-16 aircraft receiver
Message-ID: <199603170406.XAA06432@iron65>

Hello BAs,

I have German WWII FUG-16 aircraft receiver (38 to 42 MHz).
Looking to trade it for any lower frequency German equipment.

Regards,
Vlad

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Steven Wilson <randyw@crl.com>
Subject: Hallicrafters S-38 questions

Message-ID: <Pine.SUN.3.91.960317142546.13707C-100000@crl3.crl.com>

I have two S-38's on the bench. Trying to get one to play. These are the first version with a BFO control on the front. However, all S-38's are not the same.

Serial number HA-36465 has a plug-in speaker and a different tube (mechanical) layout than serial number AB-167206.

Question:

I think AB-167206 is the newer version. Does anyone know which is the newer version, does anyone know why the change?

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: Hammerlund Questions
Message-ID: <UPMAIL03.199603162340100407@msn.com>

Gang, Spent several hours cleaning smoke, grease what ever off of my HQ-170A. That means taking the front panel completely off and cleaning every thing I could reach.

Now my question, The dual dials are sparkling white, but the S-meter is a amber color. I know this has been dicussed before, But is that the way it should be as It certainly stands out.

BTW, what do I do if the steel wire cord ever breaks?

Also the Clock has yellowed a lot and does anyone have a new in box replacement, I know iam dreaming.

At any rate, this guy will play well when Iam done, The only electronic problem that Iam aware of is the 2 Meter convertor is very weak or doesn.t work at all, no big deal, when was the last time you worked 2 meter AM.

Thanks for the Bandwidth
Al
Fritsche@msn.com

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Kevin Pease <hamradio@mm1001.theporch.com>
Subject: Re: Hammerlund Questions
Message-ID: <Pine.LNX.3.91.960317072155.4902B-100000@mm1001.theporch.com>

Actually you should be able to listen to 2 meter SSB and easily work 2 meter CW. Infact CW would be easy. Just ge an old VHF FM transmitter strip and disable the reactance modulator. You might even beable to add industance in the XTAL circuit with the XTAL and VXO the transmitter 100 kc and have a stable cheap and easy 2 meter CW transmitter. Or convert the final amplifier to a high level mixer and inject 28MHZ SSB using the multiplier chain for the HFO and have cheap SSB.

Kevin Pease
WB0JZG Mount Juliet, TN.

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: Sandra L Knepper <slkst29+@pitt.edu>
Subject: Hewlett-Packard 410B VTVM
Message-ID: <Pine.3.89.9603162153.A26047-0100000@unixs7.cis.pitt.edu>

My 410B is not working on the lower two scales. I am without a manual, unfortunately. Could someone supply me with a copy or I will copy somone's manual.

Also looking for the following to complete several restoration projects:

Meter case or complete meter for the Viking Ranger I

Collins KWM-2 cabinet

Thank you.

Dave, W3BJZ

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Joe Spencer <jspencer@metronet.com>
Subject: Re: Hewlett-Packard 410B VTVM
Message-ID: <Pine.HPP.3.90.960317100852.8379A-100000@fohnix.metronet.com>

Hi Gang,

I also need a copy of the manual for the HP 410B and the HP 400H
VTVM just picked them up but no paperwork.

Also got a HP 202A(0.008 to 1200 cps) Low Frequency Generator
and a Fluke 803B AC/DC Differential Voltmeter, both with paperwork.
(I actually have two manuals each for these last two.)

Joe KK5NA

On Sat, 16 Mar 1996, Sandra L Knepper wrote:

>
> My 410B is not working on the lower two scales. I am without a manual,
> unfortunately. Could someone supply me with a copy or I will copy
> somone's manual.
>
> Dave, W3BJZ

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: john <johnmb@nando.net>
Subject: Hi Manual lookup please?
Message-ID: <9603171422.AA29848@nando.net.nando.net>

Thanks for all who answered about the availability of the
WRL map through Hi Manuals. Can someone who owns one please
let me know what the order number, cost, and handling charge
for this map is?
Thanks very much,
        /john
        wb5oau/4

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Sandra L Knepper <slkst29+@pitt.edu>
Subject: HP 410B Manual
Message-ID: <Pine.3.89.9603171457.A9731-0100000@unixs3.cis.pitt.edu>

It has come to my attention that the manuals may be different depending
on the serial numbers. My HP410B has serial number 12470. I need an
original manual or copy. Thank you.

Dave, W3BJZ

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: merrigan@ee.ualberta.ca
Subject: HP-120AR Success
Message-ID: <199603170916.DAA24821@uro.theporch.com>

I spent a bit of time today working on the HP-120AR scope I salvaged on Friday. After an initial inspection of wiring, fuse, and replacing the line cord (it was wired for a twist-lok plug, probably in a rack mount setup), a test firing revealed a spot on the crt, no smoke, and several <really> dirty, noisy pots. I found several bad (using the Hickok 6000A) tubes, replaced them, and was rewarded with a nice square wave trace in the CAL position. After disassembling and cleaning the two "worst" pots (vertical position and scale illumination), I fired it up again, to find that all the controls worked. Of course there are still a couple of pots that need cleaning (but I my be able to get away with spray cleaning them), and the scope needs to be aligned, but I am quite satisfied overall. It is in really good physical shape (except for being dusty; looks like warehouse or storeroom dust); the front panel is excellent, save for a small scratch. I love that big CRT too.

Another BA saved; I just couldn't stand by and see it taken to the dump.

Shaun
--
----
merrigan@nyquist.ee.ualberta.ca
Shaun P. Merrigan
Electrical Engineering Student
University of Alberta
Edmonton, Alberta

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: bill@texan.frco.com (William Hawkins)
Subject: Interesting instruments
Message-ID: <9603170636.AA24350@texan.frco.com>

Found a couple of interesting instruments, and would like to hear any thoughts about or experiences with them.

Jennings J-1003 VTVM, range switch reads Kilovolts 2.5, 5, 10, 25, 50, 100. Another switch reads Unbal, Left, Bal, Right. A prominent feature of the instrument is two large glass insulators

topped by 2.0 inch diameter balls with holes for about .5" dia plugs, lined with spring contacts. The insulators are probably vacuum capacitors, with Jennings number VDF 2.8. The unit uses a 6AL5 and two 12AU7, in addition to the power supply. At the base of each vacuum cap is an 800 pF precision cap. Looks like it is for measuring high voltage RF. Any idea why they used left, right, and balanced?

Boonton Q Meter, model 260-A. Found a manual for it, and a HP Journal 1/67 article on measuring complex impedance. The meter is very dirty, and one of the 4 binding posts on top is broken off. But it seems to work, which means the RF thermocouple and the special electrometer tube are still good. The book mentions some standard inductors, but they were nowhere to be found. What kind of things can you use this for? Any chance of finding the standard coils?

The HP Journal talked about a Model 250A RX meter, frequency range 0.5 to 250 MHz. I've seen one, but it is the HP version of the Boonton instrument. It's beautiful, and they want 75A-4 kinda money for it. Is it useful? Could I pay for it by selling its services? "Hey, got any complex impedances ya want measured?"

Bill Hawkins,
Honorary Irishman

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Peter Gerba <pgerba@crl.com>
Subject: Re: Interesting instruments
Message-ID: <Pine.SUN.3.91.960317081124.20091A-100000@crl5.crl.com>

Hi Bill;

The Jennings unit sounds like the test unit for vac caps. Do you want to sell it. I would love to test my collection of Jennings caps.

pete
pgerba@crl.com

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Henry van Cleef <vancleef@bga.com>
Subject: Re: Interesting instruments
Message-ID: <199603171657.KAA06754@zoom.bga.com>

As William Hawkins said

>
> Found a couple of interesting instruments, and would like to hear
> any thoughts about or experiences with them.
>
> Boonton Q Meter, model 260-A. Found a manual for it, and a HP
> Journal 1/67 article on measuring complex impedance. The meter is
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> But it seems to work, which means the RF thermocouple and the
> special electrometer tube are still good. The book mentions
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> kind of things can you use this for? Any chance of finding the
> standard coils?
>
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> range 0.5 to 250 MHz. I've seen one, but it is the HP version
> of the Boonton instrument. It's beautiful, and they want 75A-4
> kinda money for it. Is it useful? Could I pay for it by selling
> its services? "Hey, got any complex impedances ya want measured?"
>
Well, these treasures are engineering tools that were generally bought by outfits that wound coils, dealt with tuned circuits, etc. There is considerable overlap in what they will measure, but to get useful information in many cases, you have to use some High School Algebra in the correct formulae. They are not devices that were used in service and repair shops. My opinion is that if you have one, and know how to use it, having the other is somewhat superfluous.

The Q meter is a fairly standard "toy" that was around for many years. Boonton and Marconi both made superb Q meters. Heath offered one as a kit, and while it worked, it was not in the same league as the Boonton and Marconi units. The principles of operation are described in Terman's "Radio Engineer's Handbook." If you are winding coils to operate in RF circuits, a Q meter will tell you the the capacitance-frequency combination where the coil resonates and the Q of the coil. You can figure the inductance and effective resistance at (Rx) resonance from this. Remember, that when an LC circuit is in resonance, there is no complex Zl or Zc to consider.

The 250A RX bridge is a Schering bridge setup (also described in Terman "Radio Engineer's Handbook" that balances out Rx and small values of Zl or Zc, using variable capacitors (no pots or slidewires). It has two local oscillators 105 Khz apart. One drives the circuit under test; the other drives a mixer in the bridge detector, and there is an AGC-controlled IF amplifier for finding the null. If you are using it to measure tuned circuits, it will give you much the same information as the Q meter, but the impedance value is presented as Rx rather than Q. If you have one, you can calculate the other, but generally assume that the capacitance has "some high value" of Q or

conductance---something approaching "infinity" within the limits of accuracy of your measurements. Since it is a bridge, it does not require resonance if you are measuring devices that don't present complex impedances, such as resistors. You can see what a 100K resistor looks like at 200 Mhz by simply dialing up the frequency, hanging the resistor on the terminals, and dialing up bridge balance. It will also look at admittance on transmission lines and circuits directly---something that is difficult to do with a Q-meter. Since it is a bridge, you can balance out the effects of test circuitry (within limits) and play such games as clip-leading the bridge terminals to the circuit under test. One limit is that the oscillator frequency is 500 Khz to 250 Mhz, so you can't look at 455Khz IF circuits with it.

Is one better than another? As I say, both devices are useful for many measurements, and it's hard to say that the Q meter is preferable to the bridge as a general statement. The Q meter is much better for coil work, but requires a resonant circuit on its terminals. The RX bridge has all the virtues of any bridge---you start by balancing the bridge on open circuit, then measure differences created by the circuit under test---and it does not require resonance to measure resistance.

The calibration procedures given for both specify standard coils and capacitances. Standard coils are somewhat hard to find---you can maintain a lot of Q meters with one set of coils. Standard capacitors are easier to find, as are precision resistors. If you know the theory well, you can devise methods for using WWV accuracy with undefined coils, using precise resistances and capacitances, to calibrate the units.

I have a 1964 250A that was built by "Boonton, a subsidiary of Hewlett-Packard," that is, so far as I know, virtually identical to the 1955 Boonton box that we had at James Millen. I saw it at a hamfest, where it was being taken out from under a tarp, looked at it, and paid the guy what he was asking without haggling, because I had some projects that needed its services---but that was a Hallicrafters S-40 hamfest price, not any Collins 75 dollars. The serial on mine is around 3000, so there were not too many made. But I wouldn't pay any more than for a good Q meter for one.

These boxes are not run-of-the-mill beat-it-up test equipment like Tek scopes and HP meters and signal generators. They are build with methodologies used for NIST (NBS) calibration traceability, which means special wire, tweaking and trimming methodologies rather than pots and caps to tweak, and so forth. The stuff in the bridge box of the RX bridge is "don't even look at it, much less touch it, unless you know exactly what you are doing." Getting mud dauber wasp nests out of mine with screwing up anything was a bit of a game. There is one loop of wire that is bent just so, and has another wire tack-soldered to it at

the right place, and you don't want to wiggle any of that. However, since the units were built ruggedly, with first-class components, and with solder-in calibration, they generally are still in calibration unless somebody has "fixed" them---in which case, you've got a real job ahead of you.

If you are not familiar with the use of these instruments, I'd suggest getting the Q meter fixed up with good binding posts and using it a while, learning what it will and won't do, and little things like hooking your little finger over the ground post while connecting the coil you are testing so you don't slam the VTVM "Q" needle on the peg. To get any real mileage out of these boxes, you'll need to be very comfortable with LRC circuit theory. Read every word in the first few chapters of Terman "Radio Engineering," and work all the problems, then take a look at Terman and Pettit's book on measurements. I had the good fortune to work with a real pro who gave me a daily critique of my sloppiness for almost a year, working with a Q-meter constantly. The RX bridge was his pride and joy, and I wasn't even allowed to look at it most of the time. After he felt that I could use a Q meter without breaking it to get measurements rather than "today's number" he did let me use the RX bridge, and watch to see if I could get the measurements on the two boxes to correlate. That was forty years ago, and when I use my current RX bridge to do anything, I still hear his ghost critiquing my methodologies.
--
****
Hank van Cleef vancleef@bga.com vancleef@tmn.com
****

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Michael Crestohl <mc@shore.net>
Subject: Interesting spy/intelligence/counter-intelligence home page
Message-ID: <199603180158.UAA20554@northshore.shore.net>

I hope I don't get in deep "10-1000" for this!

Since there are a few crypto and spy equipment freaks (like me!) here, I would like to share an interesting Web home page with you.

http://www.tscm.com

One of the links is to the NSA's Cryptologic Museum at Fort Meade MD. The museum contains some very interesting devices. The first thing visitors see is a R-390 receiver. So it IS Boatanchor-related.

Are you paying attention Larry and Richard???

Enjoy!!

73,

Michael Crestohl, KH6KD/W1
mc@shore.net

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: kb0qil@kb0qil-uhf.ampr.org
Subject: Re: intermittent pot on Tek 1L20
Message-ID: <2000@kb0qil.ampr.org>

Hank, de Dan.

I am not familular with Deoxit, where can I get it?

Thanks. 73's Dan

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: jmlckwd@mindspring.com (Max Lockwood)
Subject: Kennehooooooooochie hamfest report
Message-ID: <199603162320.SAA19835@borg.mindspring.com>

Jack W4PPT showed up for this, so right away you know the Georgia border guards were taking the day off.   I presume they will let him recross the border into Tennessee this afternoon provided he can prove he left behind suitable amounts of long green.

Other BAers who I saw/encountered included my gracious host, Greg KX4R who put up with me all day *and* drove us down and back,   Larry KQ4BY, who tried to get me to sign up for boatanchors once a couple of years ago, and Marty AA4RM, who I didn't get to visit with because I ran out of time .

There wasn't a great quantity of heavy iron, but what was there was kind of interesting.   I remember seeing the following:

B&W 5100(?) SSB adapter.....changed hands. Don't know the $$$
hallicrafters FPM-300, nice, $100 --- sold
Ranger, minor scratches, sold, $$$????
Galaxy V MkII with AC supply. $150, I think. Nice looking.
Sway 350 with AC supply, dirty, but not abused. either $125 or $150
Heath Twoer. Nice, one extra hole. $40 sold
Meisner 54Mc-108Mc Wave Trap. NOS. Way cool.   follwed me home.
S-38(D?)   changed hands. Don't know $$$

Multi Elmac AF-68. $$$???
75S-1, repainted and touched up everywhere. $325. unsold?
75A1, lots of touch up work. don't think it sold. $$$????
SP-600 $425. don't think it sold.

There was probably other stuff that escaped my attention. I was too busy yammering with folks to catch every treasure that was there. Neat swap. My third time attending. Definitely worth going to again.

73,

Jim - km6nk/4

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Allen Tucholski <allent@en.com>
Subject: Knight TR-108 (2) Meter Transceiver For Sale
Message-ID: <199603180008.TAA23708@en.com>

I have an excellent cosmetic condition Knight TR-108 (2) meter AM transceiver forsale.
Unit is in need of repair, since the receiving converter was modified and is no longer
operational.
Transmitter works ok, has 15 watts input to the 2E26.
A good project, or parts unit!

Tube line up: 2E26 Final, 6L6GC Modulator, 12AX7A Audio, 6Cl6 Osc/Tripler, 6BZ6 1st and 2nd IF, 6Al5 Detector/ANL, 6EA8 2nd mixer, 6GJ7 1st mixer/tripler, 6CW4 rf amp, 6HA5 1st osc.
Schematic and manual included.
Cabinet, and front panel are mint.
Unit runs from 120vac or 12vdc.

Make Offer to include shipping!

Allen

NASA Lewis Research Center
Cleveland, Ohio

e-mail
allent@en.com

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: robert fowle <hammarlund@voyager.net>
Subject: manual trade wanted
Message-ID: <199603170110.UAA10179@vixa.voyager.net>

Below is a listing of unused original manuals I have availble
for trades on manuals i don't have.

ORIGINAL UNUSED MANUALS FOR TRADE ONLY

AVAILIBLE QTY	DESCRIPTION
1	HA-1
3	HA-4
1	WR-600W
3	S-29
4	S-36
2	S-36A
4	S-39
2	SP-44
4	SR-150
5	SR-400

ORIGINAL HAMMARLUND MANUALS

8	HQ-100
23	HQ-145-A
17	HXL ONE AMP (1.5KW)
20	HX 50
33	HX-500

Looking for other manuals I don't have.
Trade one for one, in same condition.

==========]-[->
Robert Fowle
The HAMMARLUND Historian
Ph. voice or fax 517-789-6721
1215 Winifred
Jackson, Mich. 49202-1946
E-mail at: hammarlund@vixa.voyager.net
HAMMARLUND LITERETURE WANTED
==========]-[->

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: haynes@cats.ucsc.edu (Jim Haynes)
Subject: Motorola schematic/info needed
Message-ID: <199603170524.VAA28128@hobbes.UCSC.EDU>

I just dug out of the depths of the garage a Motorola desktop transceiver,
sez it is Model L43GGB 100A - was made for the F.A.A., but I'm pretty sure
it's FM rather than AM for talking to airplanes. Inside are 3 subchasses -
receiver, transmitter, and power supply. Looks like a 2E26 driving a 6146
in the transmitter. Xtals are in gold-colored four-prong ovens, one is 38.
something megahertz, so I guess they are overtone. Will this tune down to
2 meters?

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: Kevin Pease <hamradio@mm1001.theporch.com>
Subject: Re: Motorola schematic/info needed
Message-ID: <Pine.LNX.3.91.960317073058.4902C-100000@mm1001.theporch.com>

On Sat, 16 Mar 1996, Jim Haynes wrote:

> I just dug out of the depths of the garage a Motorola desktop transceiver,
> sez it is Model L43GGB 100A - was made for the F.A.A., but I'm pretty sure
> it's FM rather than AM for talking to airplanes. Inside are 3 subchasses -
> receiver, transmitter, and power supply. Looks like a 2E26 driving a 6146
> in the transmitter. Xtals are in gold-colored four-prong ovens, one is 38.
> something megahertz, so I guess they are overtone. Will this tune down to
> 2 meters?
>
With a 38 MHZ crystal it is most likely AM. The motorola FM units had
crystals in the 8-9 MHZ range. One needs quite a lot of multiplication to
get enough deviation on 100 MHZ with reacance modulation. Maybee that rig
was for unicom or something. 38 MHZ time 3 = 114 MHZ.

Kevin Pease
WB0JZG Mount Juliet, TN.

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: David Josephson <david@josephson.com>
Subject: Re: Motorola T43GGB
Message-ID: <199603172215.AA00684@>

> On Sat, 16 Mar 1996, Jim Haynes wrote:
>
> > I just dug out of the depths of the garage a Motorola desktop transceiver,

> > sez it is Model L43GGB 100A - was made for the F.A.A., but I'm pretty sure
> > it's FM rather than AM for talking to airplanes. Inside are 3 subchasses -
> > receiver, transmitter, and power supply. Looks like a 2E26 driving a 6146
> > in the transmitter. Xtals are in gold-colored four-prong ovens, one is 38.
> > something megahertz, so I guess they are overtone. Will this tune down to
> > 2 meters?

The specs for this radio say that it will tune from 144 to 174, although the rx is made in two versions, 144-152 and 152-174 (strip number TA140Bxy where x is IF bandwidth and y is band segment: L for 144-152 and H for 152-174). I had one on 146.94 for years, it was an H version and tuned down that far. The rx xtal is type RM10, tx type DS1. The rx xtal will be (fc-12.455)/5 and the tx xtal fc/24. These are fine radios, the last all tube "Research Line" before Motorola started putting transistors in things. The usual xtal suppliers still have this info; be sure to specify 60 degree C ovens if your radio has the gold ovens. Why 38xx MHz? Probably a re-used oven with the original sticker left on it.

It is an FM radio, wideband (+/- 15 kHz) transmitter, usually adjusted down to +/- 5 kHz, receiver may be wide or narrow band depending on the IF filter (large metal box in the middle, K-9242 or TU145 wideband, K-9240 narrowband).

Good luck, keep 'em lit...
David WA6NMF

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: paul Veltman <veltman@netcom.com>
Subject: Re: Motorola T43GGB
Message-ID: <Pine.3.89.9603171640.A24678-0100000@netcom20>

> and the tx xtal fc/24. These are fine radios, the last all tube "Research
> Line" before Motorola started putting transistors in things. The usual

Wasn't the 'research line' all 'A' strips? Like the 80D that I ran mobile with for a few years. Nice cavities in the front end. A dynamotor that pulled 33 amps on transmit and dimmed the headlights on my car. I probably have it around someplace.

73

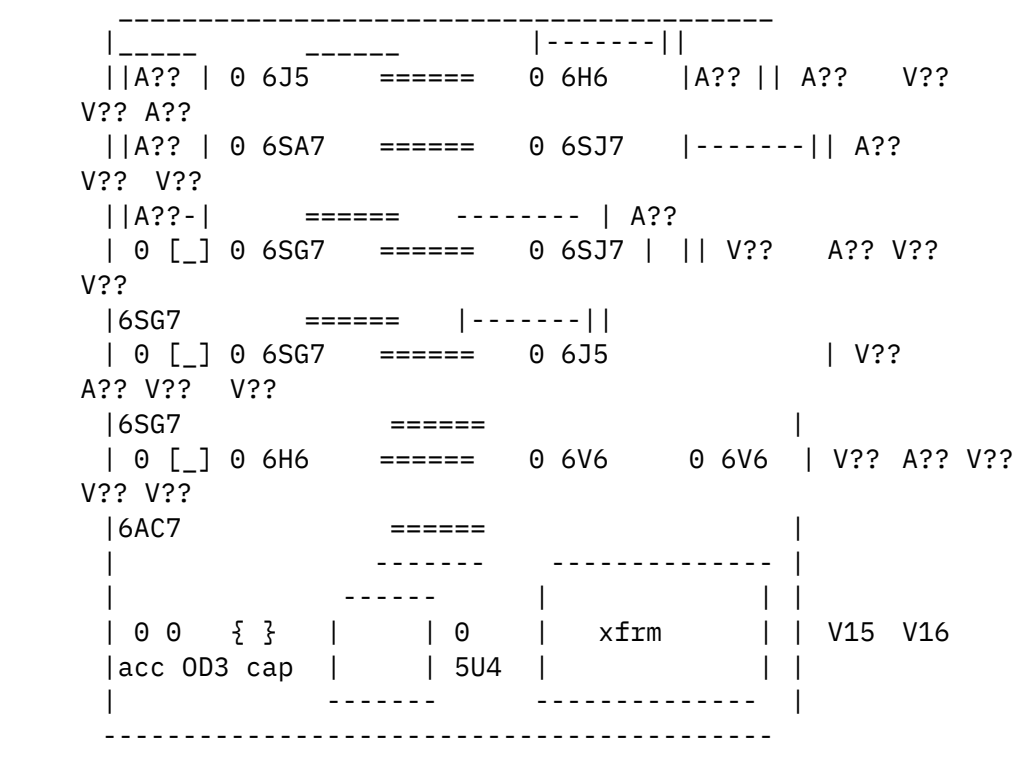
Paul WA6OKQ

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: Terry Burge <terrybu@netman.ENS.TEK.COM>

Subject: NC-183 info needed
Message-ID: <9603170341.AA20850@netman.ENS.TEK.COM>

Gang,
    I have the SAM's manual for this (copy anyhow) but it is sadly lacking on giving me the information I need to know which tubes are which and which IF cans are which. I do have the bottom picture that gives the locations of the adjustments there but nothing for the top view. Can someone explain which tubes are which and where on the chassie and which cans are which? There are so many duplicate tubes I am having a time telling my way around.

Terry
KI7M



    I am also wondering about the accessory plug if it needs jumpered connections for the rig to work. I can see with my tek 465 that when swithced to the broadcast band there are signals when I tune on some of the 6SG7's (actually 6AB7 or 6AC7 substitutes).

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996

From: Terry Burge <terrybu@netman.ENS.TEK.COM>
Subject: NC-183 info needed
Message-ID: <9603172003.AA25613@netman.ENS.TEK.COM>

Gang,
     And some people complain about the fee...

     I got replies from Dave Metz, Al Klase and RhyneK KA1CX that answered all my questions. With people helping people like this it reminds me of my youth when I used to listen to the hams helping each other and only 'the voice of the free thinker' and one or two others were the discouraging words on 75 meters. That kind of attitude always made me want to be a ham like those I used to listen too and not give the detractors the satisfaction of even acknowledging them. This group as far as I can see is carries on the finest traditions of amateur radio where even the late comers like me can get the help we need. Thanks for the help gang.

Terry
KI7M
SWLer since 1963 (S-120)
WB7PTZ/KA7BNK/KI7M amateur radio op since 1977

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: jproc@worldlinx.com
Subject: Norfolk Navy Surplus List
Message-ID: <Chameleon.4.01.2.960317195210.jproc@jproc>

Dear BAer's,

Back in 1993, I arranged some equipment acquisitions through 'The Norfolk Navy Surplus List'. This BA business was run by David Morgan, W04S. I tried to get hold of him, but his compuserve.com account is dead and he is no longer listed in the current US Callbook. His last known address was 117 West City Hall Ave., Suite 701 Norfolk VA. Does anyone on the list know David and is he still in the BA business?

Regards,
~~~~~~~~~~~~~~~~~~~~~~~~~~~
Jerry Proc VE3FAB
E-mail: jproc@worldlinx.com
Radio Restoration Volunteer
HMCS Haida, Toronto Ontario
~~~~~~~~~~~~~~~~~~~~~~~~~~~

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: "Ray L. Mote" <rmote@rain.org>
Subject: Re: Q-Meters
Message-ID: <Pine.SUN.3.91.960317105130.25386A-100000@coyote.rain.org>

Dr. Keats A. Pullen, W3QOM, wrote a fine article on the Q-Meter which was published in Ham Radio Magazine, December 1989, beginning on page 49.

The book, MODERN ELECTRONIC INSTRUMENTATION AND MEASUREMENT TECHNIQUES, by Albert D. Helfrick and William D. Cooper, Prentice-Hall, NJ, 1990 includes about 10 pages on the theory of Q-meters.

RADIO-FREQUENCY ELECTRICAL MEASUREMENTS second edition, by Hugh A. Brown, McGraw-Hill Book Company, NY, 1938, addresses the Q-meter beginning on the bottom of page 70 and also the top of page 71.

ELECTRONIC MEASUREMENTS second edition, by F.E. Terman and J.M. Pettit, McGraw-Hill, NY, 1952 covers the Q-meter beginning on page 90 and continuing through page 92. It specifically covers the Boonton 160 unit.

RADIO ENGINEERS' HANDBOOK, by F.E. Terman, McGraw-Hill, NY, 1943 covers the infinite-input-impedance detector (the heart of the 160/260 series Q-meters) on pages 563, 564, and 574. This stuff was left out of Terman's later ELECTRONIC AND RADIO ENGINEERING text from 1955.

Each of the above references contains citations to other works, mostly IEEE papers, dealing with measurement of Q. I believe CQ Magazine should be able to provide copies of the HR article by Pullen. For those with microfiche readers, try Buckmaster for the 1989 HR fiche.

Last known address for Keats Pullen (as of April 1990) was 2807 Jerusalem Road, Kingsville, MD 21087.

BTW: Keats also did several texts on the use of a solid-state design approach using *transconductance* instead of the more orthodox methods. He said it produced more predictable, more stable circuits than the usual way. Unfortunately, the IEEE apparently didn't see it that way, as none of his articles made it through.

73.....Ray Mote, W6RIC <rmote@rain.org>

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: daleh@skypoint.com (Dale A. Hagert)

Subject: R390 meters
Message-ID: <m0tyRUU-000EkLC@skypoint.com>

Needless to say I along with many others are looking for meters for the R-390-390A. I have been checking, and I have a company that would be willing to make the meter movements. What I need to know, is what is the actual meter movement, i.e. 0-10 ua
or ?. By looking at the circuit, it looks like the line level meter is an AC vu meter, and the signal level a low current dc meter. If someone knows the answer, please drop me a line. With that information, I can get quotes on the movements. If it looks reasonable, I will proceed with have a tool made to mold the housings, and get the meters scale made. If anyone is interested in reproduction meters that look and function like the original ones, drop me a line.
Thanks Dale NM0H
Dale A. Hagert NM0H
3881 Serpentine Circle
Eagan, MN 55122
612-688-7155

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: "Lahlum Ross" <ross_lahlum@msmail.wes.mot.com>
Subject: R390A Restoration
Message-ID: <9603170429.AA01819@kay.wes.mot.com>

A while ago I asked the group about the R390A, and after many helpful responses decided to go ahead & get one. My "new" radio arrived at Chicago O'Hare Delta freight yesterday, so I went to pick it up. First lesson learned: Air freight is fast, not horribly expensive, but kind of a hassle. Toronto Surplus & Scientific shipped out the unit Wednesday, and it arrived Thursday afternoon. It cost around $45 (US). The hassle was in driving to O'Hare, finding Delta freight (that part wasn't too bad, the Delta guys were very helpful), then spending another hour driving to US Customs on the opposite side of O'hare, getting the paperwork cleared, the driving back to Delta. Once that was done, I had my unit.

I managed to fit it in my car. With moderate difficulty, I managed to unpack it while stopped at red lights on the way to work. Hmm. It was pretty dirty on the top side, no cover, just as the guy said, and the knobs were in bad shape - they looked badly oxidized as if they had been in a salt spray. The good news was that the tuning mechanism was working just fine. Maybe the grease helped preserve it.

That night, I put it up on the bench & powered it up - the tubes glowed, there was a faint hum from the headphones, but the signal level meter was reading high even with no antenna. I hooked up the antenna and didn't receive any

signals. Tired and disappointed, I crawled off to bed.

Next morning I ran back down to the shack with my coffee & ten-year old son and looked at the manual copy I had bought years back from Fair while contemplating a buy (all I had money for at the time was the manual). Naturally, the manual recommends checking the power supply first. So I flipped the unit over & popped the bottom cover. Nice & clean underneath, I was remarking, when my son said, "Dad, are those 2 sockets supposed to have tubes in them?" Aha! Good troubleshooter. The rectifier tubes were missing.

Here I will pause to ask my fellow BA-ites: anybody out there have a couple of extra 25Z5W's? The suspense is killing me. I am also considering poking a couple of 1N4007's into the sockets. Anybody feel that this would be a BAD idea? Of course I will still get the tubes, but this would at least let me continue...

That's all the news for now. A lot of cleaning needs to be done, but fortunately no mechanical work appears to be needed. I will try to wait for some opinions to come in about using silicon rectifiers temporarily, then will post more news as things move along.

73 de Ross KB9JJR

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: "Lahlum Ross" <ross_lahlum@msmail.wes.mot.com>
Subject: R390A Restoration, part2
Message-ID: <9603170755.AA02011@kay.wes.mot.com>

Well, several folks came back right away regarding the rectifier tubes. Sure enough, the shield holders were bent, and there were silicon diodes soldered in underneath. Furthermore, the B+ checked out OK at +207 v, and the regulated B+ was fine at 149 v. Thanks for the quick feedback.

I started going through the trouble shooting procedure and found out that V401, the 2nd Xtal Osc, had no grid leak bias at E402. Per sec. 44, the voltage at E402 should be between -4 and -11v. I had -0.1v. I checked the B+ & reg. B+ at the connector - both OK. Checked the resistance measurements per sec. 56 - all OK (what a great manual - are all the military manuals this good?). The next suspect was the 5654/6AK5 tube itself. I yanked it out, and got NO voltage at the grid. That made sense, so I swapped with another 6AK5 in the radio & got slightly more voltage this time (abt 0.3v). I tested both tubes on my trusty ol' Hickok, and both had low transconductance, well below the min of 3150.

So here's a new question: this radio is pretty old; it's a Collins from the 2nd lot they made in (I think) 1956. Do 6AK5/5654's age poorly? Or is it the fact that this one's an oscillator? Since the radio is so old, am I going to

have to replace ALL the tubes (arrg - more expense!)? If I do have to, where's a good place to get good tubes cheap?

Thanks again, all - I'll post my new findings when I get to the bottom of this grid leak problem.

73,
Ross
ross_lahlum@msmail2.wes.mot.com

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Nick England <nick@cs.unc.edu>
Subject: Radiotron CD
Message-ID: <199603180011.TAA11885@altair.cs.unc.edu>

So I was looking through my copy of "The Audio Amateur" today and out fell a post card advertiseing - are you ready for this?

The Radiotron Designers Handbook 4th edition - all 1498 pages on CD-ROM (plus 50 page index) - says it includes
Adobe Acrobat software for fully hyperlinked access via the 40 page Table of Contents. $69.95 plus $3.95 s/h
Old Colony Sound Lab
603/924-6371

I've got no connection with these folks or idea whether it is worth it (I bought my 4th edition new years ago) but
thought it was kinda interesting.
73 & have fun,
Nick KD4CPL

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: jmlckwd@mindspring.com (Max Lockwood)
Subject: Re: REF ATLAS - SWAN - CUBIC
Message-ID: <199603170146.UAA27675@borg.mindspring.com>

At 10:30 AM 3/16/96 -0600, Steven Wilson wrote:
>Does anyone know the history of how these firms are related ?
>

Near as I can figgur...

Herb Johnson started Swan. At some point in the late '60s, Swan was bought by Cubic.

Herb Johnson then started and continues to run Atlas to this day.

73,

Jim - km6nk/4
>

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: Re: REF ATLAS - SWAN - CUBIC
Message-ID: <314B7A63.7E46@iglou.com>

I've been told that Herb Johnson wanted to name his company Johnson
but couldn't for obvious reasons. He then named it after his Sweedish
father, Sven (spelling?). This is pronounced 'Swan' in english. Hence
the company name.

Now I hear nothing but bad news about his new Atlas company. Like all
talk and no rig.

>
> Herb Johnson started Swan.   At some point in the late '60s, Swan was bought
> by Cubic.
>
> Herb Johnson then started and continues to run Atlas to this day.
>
> 73,
>
> Jim - km6nk/4
> >

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: paul Veltman <veltman@netcom.com>
Subject: Re: REF ATLAS - SWAN - CUBIC
Message-ID: <Pine.3.89.9603162043.A21408-0100000@netcom2>

> Now I hear nothing but bad news about his new Atlas company. Like all
> talk and no rig.
> >
> > Herb Johnson then started and continues to run Atlas to this day.

Yeah, a couple of guys up this way have had problems getting ahold of Mr.

Johnson. He does run Atlas.

73

Paul WA6OKQ

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: vancleef@netcom.com (Henry van Cleef)
Subject: Smoking Tek scope
Message-ID: <199603170737.BAA19789@netcom23.netcom.com>

Well, I spoke too soon about that fabulous RM585A that "came right up" the other day, even though it had "junk" marked on it.

After refurbishing the front panel and doing some more cleanup (including removing a quarter inch screw that was lodged in the power supply filter caps) I set to work to calibrate it. I got out my trusty 107 square wave generator (not really fast enough for a 585) and got to work. It quickly became obvious that the fastest sweep speeds were all in trouble. Short trace, lots of jitter, non-linearity, etc. Some creative trouble-shooting with clip leads quickly pointed to the X1/X5 magnifier attenuator as the problem, and after a lot of jiggery-pokery I changed a component that I have never changed for noise before---a 3-12pf NPO ceramic cap. A junk K plugin supplied a replacement. That made the noise go away, but there were other troubles.

Tek 531/5 and the 540/580 series 1 and 5 scopes all have the same general layout in the horizontal amplifier. There are two attenuators. One, labeled "magnifier gain" is the main gain control for the amplifier, and is set first. It operates by providing degeneration in a cathode-coupled paraphase amplifier, and has a large adjustable cap across it to provide leading current boost on fast sweeprates. The other attenuator is at the input to this amplifier. While it is labeled "sweep calibration," it actually sets the attenuator for X1 display. On the 585A series, the "magnifier gain" setup is mounted on a little plastic board that is fastened to the top rail with screws (side rail on an RM, which is rotated 90 degrees clockwise). I started tweaking away on that compression mica, when all of a sudden, the trace collapsed at midpoint on the CRT.

"AHA!" sez me, time to get out the trusty VoltOhmyst and find out what happened to the volts on the right deflection plate. As I was reaching for the trusty probe for the trusty VoltOhmyst, I started to hear frying noises, and shortly after, the smoke started. Obviously, the trusty VoltOhmyst was going to need to operate on Ohms, not DC Volts, to fix this one. I located the offending resistor, a 100 ohm job that goes to a fixed-voltage 6DJ8 grid from +100. How can this be? There's nothing

but a 6DJ8 grid on that resistor. Aha! zero ohms between the grid and cathode on that toob (who needs a tube tester when an ohmmeter will do)? So much for Amperex Bugle Boy 6DJ8's (the true love of toob audiophiles). I rounded up a spare, plugged it in, but this time was smart enough to break out the second trusty Voltohmyst and put probes on both the grid and the cathode of that section of the 6DJ8. Plenty of DC resistance to ground in the cathode circuit, and nothing wrong with the grid reference circuit. But when I powered the thing up, I got 100 volts on the grid, zero volts on the cathode. A little more ohming and I found the cathode of the 6DJ8 reading all sorts of low values. A little poking, and the reading jumped back up. I inspected, poked, probed, and couldn't find anything that looked like a short. Finally decided to take off the bracket holding the magnifier gain circuit. On the back of that piece of plastic was a big solder splat that obviously could bridge the 6DJ8 cathode on that side to ground. Checked out the magnifier gain pot (a small 2500 ohm job). Wide open, end to end. A little tour to the local parts emporium produced (out of one of their surplus bins) a very nice little Allen-Bradley pot that fit in the hole, and was not too far off value (5K audio taper) to work. A 5100 ohm resistor across the pot end to the wiper took some of the log out of the taper and made it a 2.5K pot (actually, connected as a rheostat---the other leg is open). Washed everything off, checked for more possible shorts, replaced the cooked 100 ohm resistor, and ohmed everything else out that could have possibly been affected.

Powered the thing back up. Voltages looked normal, but there was no sweep, and the horizontal position control didn't wiggle anything. A little more work with the trusty Voltohmysts showed another 6DJ8 where I could wiggle the grid with the horizontal position control, but the cathode was off somewhere else. Replaced that 6DJ8, and now had sweep.

Now where did that solder splat come from, and how long had it been there? Where it was located, the scope would have had to be completely upside-down for solder to fall there, and someone would have had to have been working on the horizontal amplifier ceramic strips. No signs of any repair activities there. Could I have dropped some molten solder there? Pretty difficult to do, when I had not been working in that area, although I did have the scope upside down. I started to recalibrate the sweep, and found I had to move the sweep length control quite a bit to shorten the sweep to 10.5 cm., and had to back off the compression mica quite a bit as well. I'm half inclined to believe that the scope went out the door of the Tek factory with that solder splat in there, and it had not made enough contact to do any more than screw up the calibration some until I started poking at it. And it seems reasonable to believe that the scope had been misbehaving at high sweep rates just as I first saw it, which is what got the "junk" crayoned on it.

What's to be learned from all this? One, the value of a close visual inspection, looking for manufacturing defects as well as repair activity was confirmed again. Secondly, when you are playing around with Tek scopes, some of the circuits are hard-core brute force, and a fault can do a fair amount of damage. The 585A horizontal maximum sweep rate is double that for the 545A, which means that Tek increased currents in many of the circuits and relied on raw power to get the speed.

Another thing, I realize that there are a lot of digital meter fans out there. The VoltOhmysts are analog meters. For tests on circuits that have had overheating and smoke problems, I figure I have 5-10 seconds if I haven't cleared all the faults. With analog meters clipped into the circuit, I double check the range settings and predicted readings, turn the power on, and watch the meter needles. If they don't jump up to the predicted values (and I tell those as "half scale" or "full scale," not down to the picovolt), power back off before you cook more components, new or old. I don't have time to wait for a digital meter to settle or to actually read the numbers on it. In this case, if I had not been using analog meters, I could have cooked at least one more 6DJ8.

--

     Hank van Cleef vancleef@netcom.com vancleef@tmn.com
     The Union Institute History of Science and Technology

From boatanchors@theporch.com Sun Mar 17 14:31:08 1996
From: "Grant Youngman" <nq5t@gte.net>
Subject: SP600 Stability Problem Finally Solved
Message-ID: <199603171713.LAA07742@uro.theporch.com>

Gang ..

What must now be four or five months ago, I was grousing about a few problems with an SP600JX-17 which included a "gurgling" CW note and generally high internal noise that varied with the setting of the main tuning cap.

My thanks to many on this list who provided constructive suggestions and a great deal of discourse on the subject. I tried nearly every idea offered. Spent a lot of time focused on the grounding around the main oscillator. Built an external 150V regulated supply and isolated each stage one at a time in the SP600 to ensure that nothing internal was causing trouble with the 1st osc plate voltage. And many other experimental forays, none of which proved fruitful.

After staring at the radio with a stupid look on my face as it

gathered dust on the bench for several months, I finally broke down, pulled the RF deck (for the fourth time) and began rebuilding the mixer and oscillator stages -- new tube sockets, the works. I checked each original component as it was removed, and VOILA (don't ask why I didn't find this problem right away) -- the 100pf molded mica (C75) that connects the oscillator tuned circuit to the grid of the 6C4 had a leakage resistance of only about 100 megohms - way below the 10K+ or so megohms of the other two similar capacitors in the RF amp sections (C18,C25). To be safe, I just went ahead and replaced all three with new dipped silver mica caps.

The failure of this capacitor must simply have been due to old age and poor sealing between the leads and the molded casing. There's no significant DC voltage on it to cause any stress. I had put all my energies into verifiying that the .01 mf bypass caps were good, thinking that these micas would not be a problem.

Well, its all back together and playing fine -- both the stability and noise problems are finally gone. The more I use the receiver in the 75M and 40M AM windows and for general SW listening, the more I appreciate the fine job Hammarlund did with these radios -- a pleasure to use and to look at.

One final thought -- the comments around here about NOT using the Rat Shack 70V PA transormer as a 600 ohm speaker matching transformer are right on! I had been disappointed in what seemed to me to be "thin" audio from the radio. Replaced the RS thing with a good quality 25V transormer and the difference was immediately noticeable -- improved audio level and greatly improved low end.

Grant/NQ5T

Grant Youngman -- NQ5T
nq5t@gte.net

WANTED: Hammarlund SPC-10

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: GALBRAITH CHRISTOPHER <99galbra@lab.cc.wmich.edu>
Subject: Spring cleaning...
Message-ID: <Pine.SUN.3.91.960316190524.10416A-100000@grog>

Here's the poop...

Drake 2B, a '10' electrically (retubed, aligned), a '6' cosmetically (nice restore project, tho), no manual...$85

Heath HP23, mint, original book, cable...$50

CDE Rotator Control unit (no rotator, though), orig. book...$30

Heath HD-15 phone patch, mint, orig. book...$20

All plus shipping (from 49008)!

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: SX-28A Reclaimation Advice
Message-ID: <199603171833.MAA23217@dlep1.itg.ti.com>

Greetings;

I picked up an SX-28A out of East Texas this weekend which needs some TLC and I could use some advice on restoring the thing. The seller, who seems to restore older broadcast radios and such, said that it worked and it does somewhat, but his idea of working and mine seem to be different. (The price was right in any case, though. ;-)

First, the IF bandwidth seems to be about 50 kHz wide regardless of selectivity setting. The selectivity control variably attenuates the signal but does not seem to alter the bandwidth. I suppose this is likely to be obvious when I dig into it, but if anyone's seen this before I'd appreciate any insights.

Second, a previous owner seems to have added a front panel toggle switch for AC power. (Why do they do these things?) How was power switched originally? Was it on one of the gain controls? No knob markings indicate power, although there is a panel marking for the ALC control fully CCW indicating "OFF".

Third, the knobs on this receiver are in rather poor shape. The BFO and tone knobs are not original and the black paint has mostly worn off the AF and RF Gain controls. The others are dirty but look likely to be cleanable. Anyone have SX-28 knobs or advice on restoring the finish? (BTW, the distinguishing feature of the SX-28 knobs is that in addition to having a skirt they look kinda like a fat piece of pita bread. Anyone got such things in their junk boxes?)

Fourth, the front panel around the gain controls is worn and flaking off. Since the panel has etched markings through it like alligator skin I'm wondering whether it might be possible to get a reasonably good looking

panel by simply "patch" painting the worn portions. Anybody tried this or have suggestions on panel finishing?

Any and all advice appreciated and will be responded to.

Regards,
Bill Sorsby, N5BU   bill.sorsby@dlep1.itg.ti.com

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: whittyd@nbnet.nb.ca (Don Whitty)
Subject: Toronto
Message-ID: <9603180138.AA41929@darwin.nbnet.nb.ca>

I will be in Toronto on business from 26th (Tues.) til 31st (Sunday). Any ideas as to some BA haunts to check out? What is the scoop on Toronto surplus... I an interested in 390's, and S-line and/or a KWM2A... Any ideas?

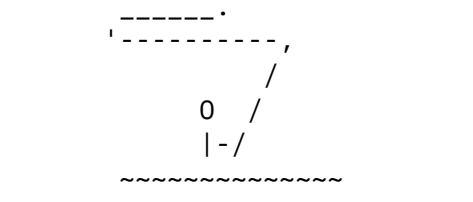
Thanks in advance...

Don Whitty
VE9XX

whittyd@nbnet.nb.ca

Don Whitty

New Brunswick Community College
Miramichi Campus
Miramichi, NB
Canada
E1N 3W4



"Fish the Mighty Miramichi!"

whittyd@nbnet.nb.ca
(506)778-6632 (vox)
(506)778-6690 (fax)

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: jlyle@netcom.com (Jim Lyle)
Subject: TV books for sale

Message-ID: <199603180037.QAA29536@netcom10.netcom.com>

Hello;

  I have some TV-related books for sale:

  1) New Shortcuts to TV Servicing (2 Volume Set) by Leonard G. Lane.
      Good Condition. These are apparently the texts to a Sylvania
      sponsored "RTTA" course, and look pretty handy. $20 for the set.

  2) TV and Other Receiving Antennas by Arnold B. Bailey. Good to very
      Good condition. Contains lots of good information about all different
      kinds of antennas, and a good introduction that talks about TV
      signals in general. $15

  Prices above do not include shipping.

--
Jim Lyle jlyle@netcom.COM

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: TV-2B for sale
Message-ID: <Pine.ULT.3.91.960317183709.5984B-100000@admin.aurora.edu>

I have a SWAN TV-2B, 2 meter transverter for sale. All tubes - the receive
converter uses nuvistors. In good working condition - last time I used it
I got 35 watts out with my lower voltage than normal supply. It has been
modified for low level input, such as from the transverter jack on a
TS-930 or similar rig. Xtal switch and driver tune controls removed and
unit optimized for low end (CW/SSB) of 2 meters. xtal inside for 10 meter
IF (28 - 28.5 MC). Include manual & power cable. $50.00 & shipping.
(I am located 40 miles west of Chicago).

E-mail broehrig@admin.aurora.edu   73 de Bob, K9EUI

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: Arthur Moe <kb7ww@aracnet.com>
Subject: Wanted Info BIRD
Message-ID: <199603170233.SAA22372@trapdoor.aracnet.com>

I have been told that years back BIRD made low power (10-25 watt) HF slugs
for the mod.43.. Can anyone provide facts????

art

***

AT THE END OF THE OREGON TRAIL
Arthur Moe
A.R.S. KB7WW
QTH: Oregon City, Or.

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Re: WRL US Call area maps
Message-ID: <01I2FDIOVVBM001JQG@ACS.EKU.EDU>

Maps were available as recently as two years ago (when I got mine)
from HI Manuals in Council Bluffs, Iowa - they advertise in the
QST classifieds, and also do an excellent job on copies of manuals.

     (usual disclaimer - no personal financial interest, etc.)

     73, Al N5AIT
  modsteph@acs.eku.edu

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: john <johnmb@nando.net>
Subject: WRL US Map... Where?
Message-ID: <9603170046.AA14106@nando.net.nando.net>

        Somewhere on this list (at least twice!) I've seen mention
of the WRL US call area maps. Now that Im interested in getting one,
I dont remember where they were available from.

        Does anyone know?

        Best
        /john

John Brewer johnmb@nando.net
WB5OAU/4   AMI #24
Vintage Gear web page: http://www.zynet.com/~johnb

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: jmlckwd@mindspring.com (Max Lockwood)
Subject: Re: WRL US Map... Where?
Message-ID: <199603170458.XAA21751@borg.mindspring.com>

At 06:46 PM 3/16/96 -0600, john wrote:
>   Somewhere on this list (at least twice!) I've seen mention
>of the WRL US call area maps. Now that Im interested in getting one,
>I dont remember where they were available from.
>
>   Does anyone know?
>

The fellow who runs Hi Manuals has reproduced these and sells them. I have one of the repops and an original and I'll attest to the repop being dead on.

It sure adds a nice touch to a vintage shack.

73,

Jim - km6nk/4

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: "Mark S. Hovda" <75301.3141@compuserve.com>
Subject: WTB 4D32
Message-ID: <960317182817_75301.3141_GHI88-2@CompuServe.COM>

Gentlemen,

I would like to get a extra 4D32 as a standby for my 32V3.   I can't sleep at night knowing I don't have a spare ready to go. Check your tube box and let me know.

Mark
N0JWI

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: john <johnmb@nando.net>
Subject: Re: WTB 4D32
Message-ID: <9603172151.AA17080@nando.net.nando.net>

At 02:11 PM 3/17/96 -0600, you wrote:
>Gentlemen,
>
>I would like to get a extra 4D32 as a standby for my 32V3. I can't sleep at
>night knowing I don't have a spare ready to go. Check your tube box and let me
>know.
>
>Mark
>N0JWI
>

You can get them from Fair Radio for $30 @ new, I believe!
/john

John Brewer johnmb@nando.net
WB5OAU/4 AMI #24
Vintage Gear web page: http://www.zynet.com/~johnb

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: garland@PHYAS1.MPS.OHIO-STATE.EDU (James C. Garland)
Subject: WTB: Collins 516F-2, 312B-5
Message-ID: <199603170355.WAA07893@top.magnus.acs.ohio-state.edu>

I'm probably dreaming, but I'd like to find a 516F-2 power supply and a round emblem 312B-5 remote vfo.

And, in the extreme wishful thinking department, I'm looking for an original manual for an SX-115 receiver, and a Hallicrafters SP-47 speaker.

Jim W8ZR
(614) 548-7277

From boatanchors@theporch.com Sun Mar 17 20:44:30 1996
From: Sandy Blaize <70401.134@compuserve.com>
Subject: WTB: Heath power supply
Message-ID: <960317180523_70401.134_IHD113-1@CompuServe.COM>

I'm looking for a Heathkit IP-17 or IP-32 power supply or any of its permutations. This was the 450 volt regulated supply for test/experimental use. I'd prefer the "low-boy" cabinet (IP-17) if I can find one. These things seem

to show up at all kinds of hamfests but in this area!
     Is there any out there?

73,
Sandy W5TVW

From boatanchors@theporch.com Sun Mar 17 02:20:25 1996
From: jolson@intergate.net (James Olson)
Subject: WTB: SX 115 Receiver
Message-ID: <199603170304.DAA08432@keystone.intergate.net>

Wanted: Hallicrafters SX-115 receiver. My HT32b has been yearning for a companion far too long now.

Can anyone help me locate one?

Thanks,

James Olson, N6IFO
Powder Springs, GA